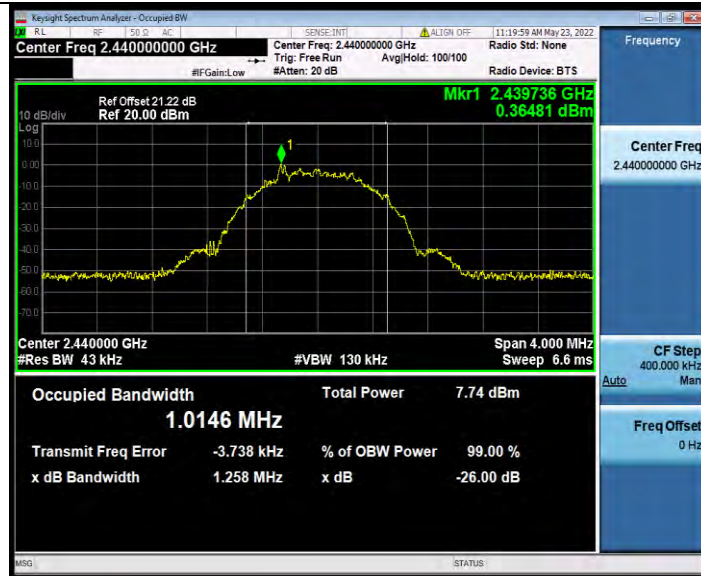


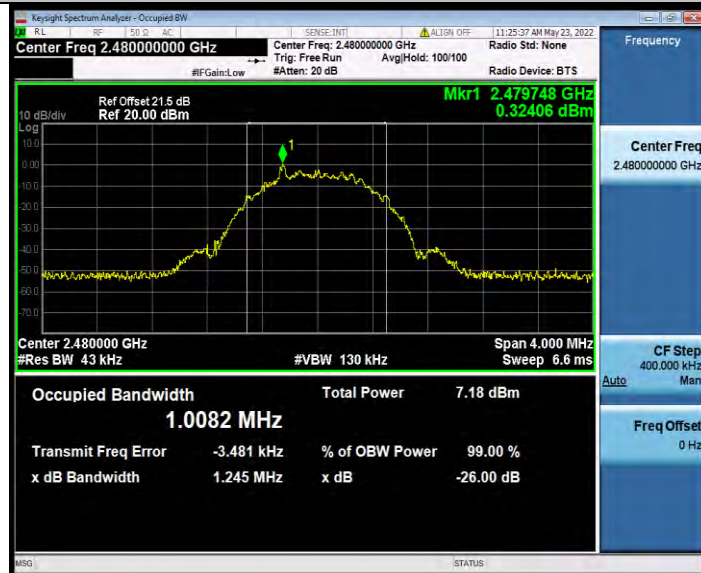


**BUREAU  
VERITAS**

### Test Report No.: W7L-P22050002RF02



### BLE\_500K\_Ant1\_2480





## MAXIMUM CONDUCTED OUTPUT POWER

### TEST RESULT PEAK

TestMode	Antenna	Freq. [MHz]	Average Power [dBm]	Peak Power [dBm]	Peak Power [mW]	Limit [dBm]	Verdict	Power setting
BLE_125K	Ant1	2402	3.34	3.82	2.41	≤30	PASS	Default
		2440	3.84	4.31	2.70	≤30	PASS	Default
		2480	2.88	3.52	2.25	≤30	PASS	Default
BLE_1M	Ant1	2402	2.57	3.72	2.36	≤30	PASS	Default
		2440	3.04	4.25	2.66	≤30	PASS	Default
		2480	2.13	3.33	2.15	≤30	PASS	Default
BLE_2M	Ant1	2402	1.26	3.76	2.38	≤30	PASS	Default
		2440	1.72	4.23	2.65	≤30	PASS	Default
		2480	0.87	3.29	2.13	≤30	PASS	Default
BLE_500K	Ant1	2402	2.48	3.90	2.45	≤30	PASS	Default
		2440	2.98	<b>4.40</b>	<b>2.75</b>	≤30	PASS	Default
		2480	2.02	3.49	2.23	≤30	PASS	Default



## MAXIMUM POWER SPECTRAL DENSITY TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_125K	Ant1	2402	-4.89	≤8.00	PASS
		2440	-4.95	≤8.00	PASS
		2480	-5.69	≤8.00	PASS
BLE_1M	Ant1	2402	-14.80	≤8.00	PASS
		2440	-14.70	≤8.00	PASS
		2480	-15.54	≤8.00	PASS
BLE_2M	Ant1	2402	-17.96	≤8.00	PASS
		2440	-18.02	≤8.00	PASS
		2480	-18.85	≤8.00	PASS
BLE_500K	Ant1	2402	-4.88	≤8.00	PASS
		2440	-4.90	≤8.00	PASS
		2480	-5.66	≤8.00	PASS



BUREAU  
VERITAS

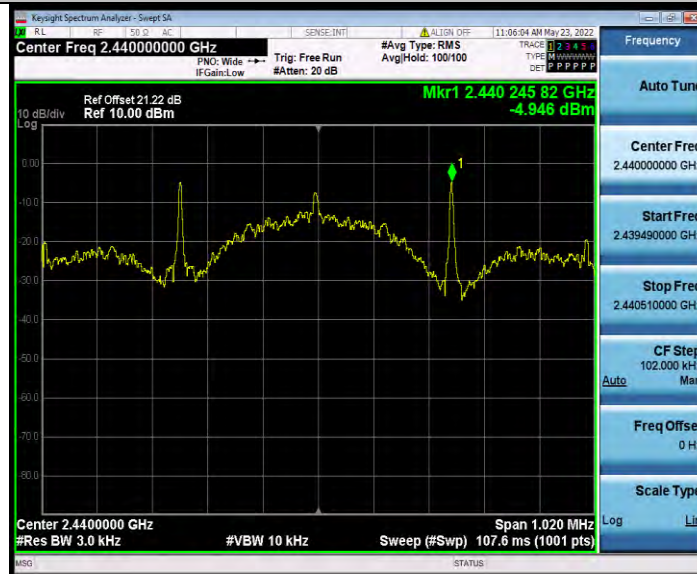
Test Report No.: W7L-P22050002RF02

## TEST GRAPHS

BLE\_125K\_Ant1\_2402



BLE\_125K\_Ant1\_2440

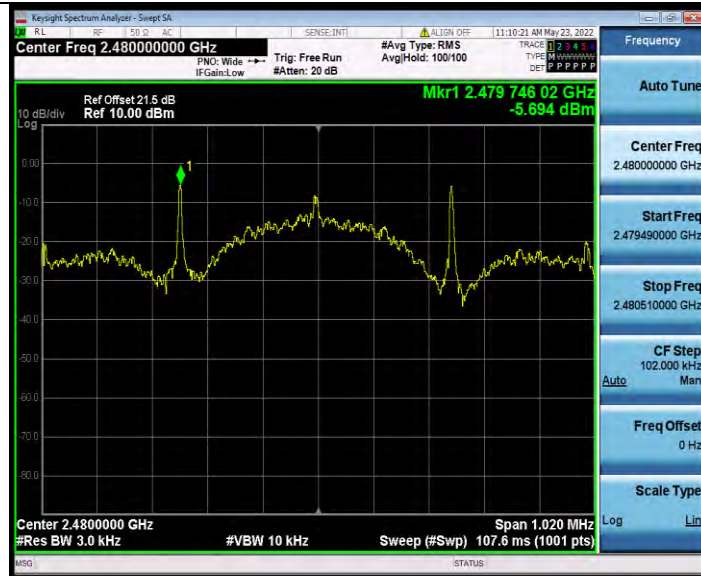


BLE\_125K\_Ant1\_2480



BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



**BUREAU  
VERITAS**

### Test Report No.: W7L-P22050002RF02



BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402



**BUREAU  
VERITAS**

### Test Report No.: W7L-P22050002RF02



BLE\_2M\_Ant1\_2440

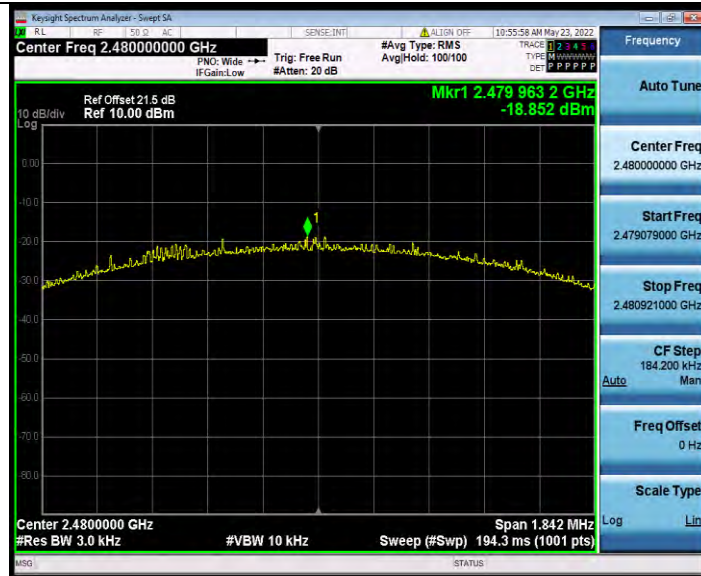


BLE\_2M\_Ant1\_2480

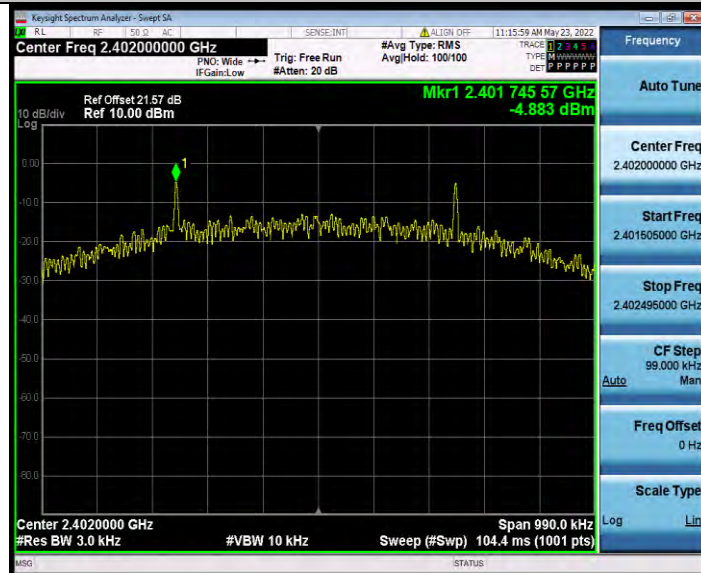


**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_500K\_Ant1\_2402



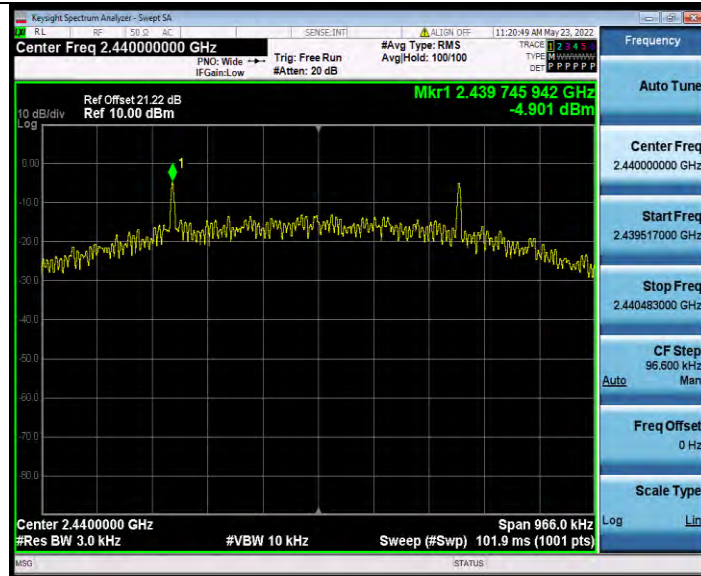
BLE\_500K\_Ant1\_2440



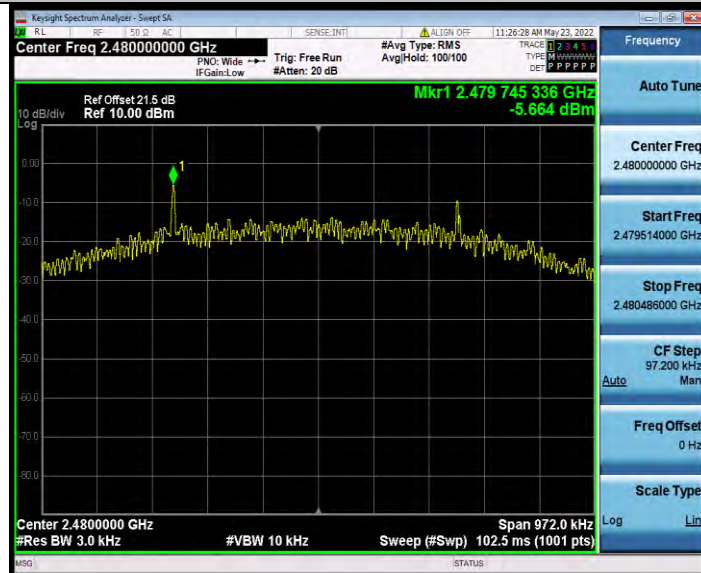


**BUREAU  
VERITAS**

Test Report No.: W7L-P22050002RF02



BLE\_500K\_Ant1\_2480





## REFERENCE LEVEL MEASUREMENT

### TEST RESULT

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_125K	Ant1	2402	2401.79	-0.52
		2440	2439.77	0.34
		2480	2480.00	-2.58
BLE_1M	Ant1	2402	2401.75	1.35
		2440	2439.75	1.36
		2480	2479.74	0.60
BLE_2M	Ant1	2402	2401.50	1.11
		2440	2439.49	1.01
		2480	2479.49	0.36
BLE_500K	Ant1	2402	2401.75	1.37
		2440	2439.74	1.37
		2480	2479.75	0.59



### TEST GRAPHS





**BUREAU  
VERITAS**

### Test Report No.: W7L-P22050002RF02



BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_1M\_Ant1\_2480



BLE\_2M\_Ant1\_2402



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_2M\_Ant1\_2440



BLE\_2M\_Ant1\_2480



BUREAU  
VERITAS

Test Report No.: W7L-P22050002RF02



BLE\_500K\_Ant1\_2402



BLE\_500K\_Ant1\_2440



**BUREAU  
VERITAS**

### Test Report No.: W7L-P22050002RF02



BLE\_500K\_Ant1\_2480







## **BAND EDGE MEASUREMENTS**

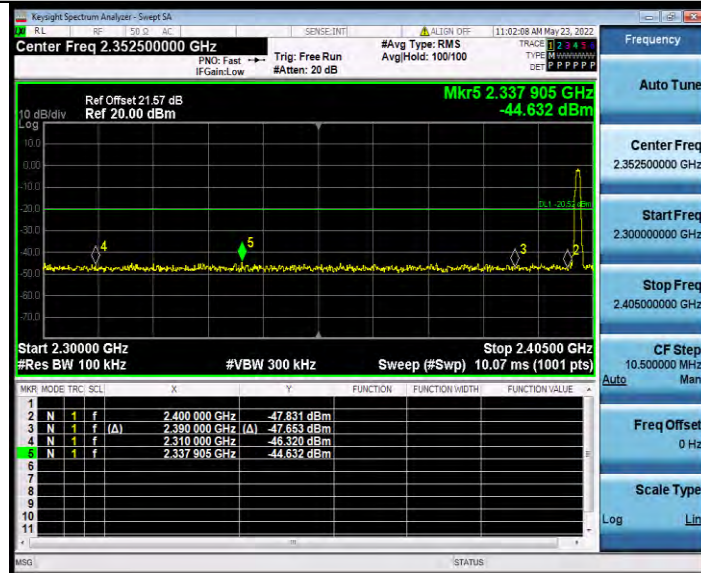
### **TEST RESULT**

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_125K	Ant1	Low	2402	-0.52	-44.63	≤-20.52	PASS
		High	2480	-2.58	-42.95	≤-22.58	PASS
BLE_1M	Ant1	Low	2402	1.35	-45.00	≤-18.65	PASS
		High	2480	0.60	-44.04	≤-19.4	PASS
BLE_2M	Ant1	Low	2402	1.11	-42.46	≤-18.89	PASS
		High	2480	0.36	-44.02	≤-19.64	PASS
BLE_500K	Ant1	Low	2402	1.37	-43.61	≤-18.63	PASS
		High	2480	0.59	-44.04	≤-19.41	PASS

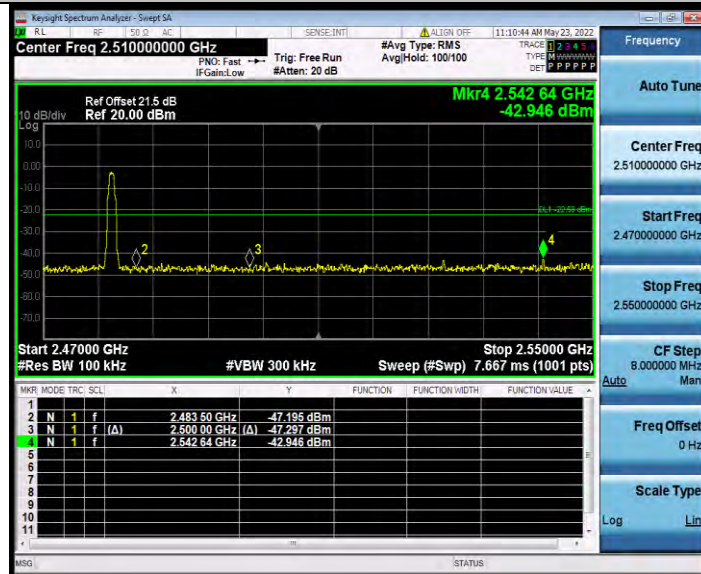


### TEST GRAPHS

BLE\_125K\_Ant1\_Low\_2402



BLE\_125K\_Ant1\_High\_2480

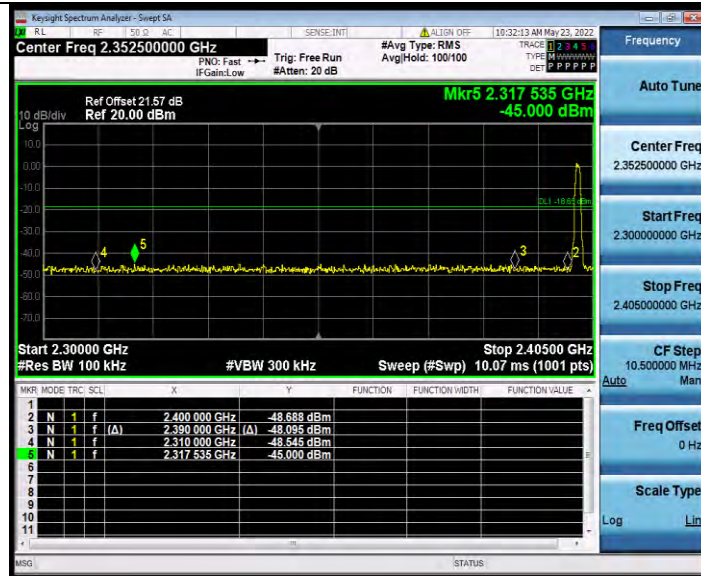


BLE\_1M\_Ant1\_Low\_2402

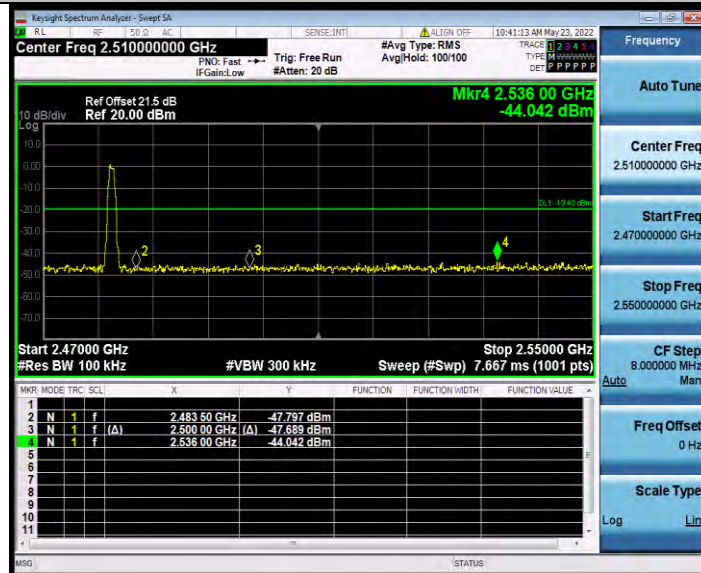


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



BLE\_1M\_Ant1\_High\_2480

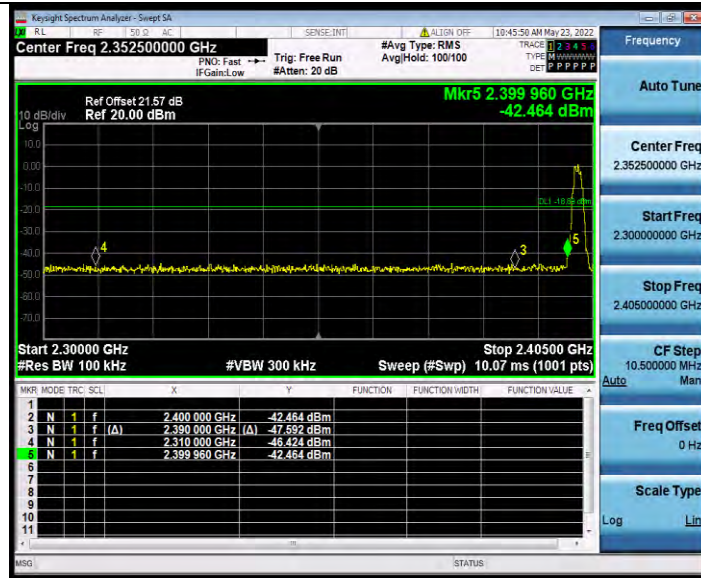


BLE\_2M\_Ant1\_Low\_2402

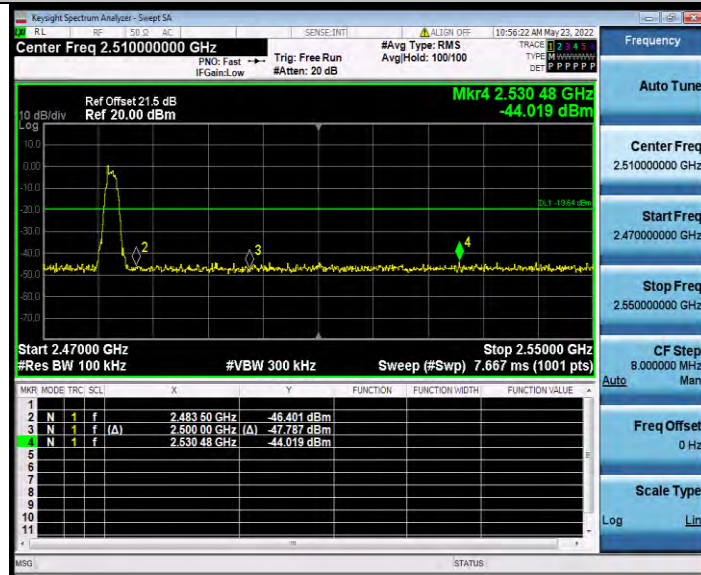


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



BLE\_2M\_Ant1\_High\_2480

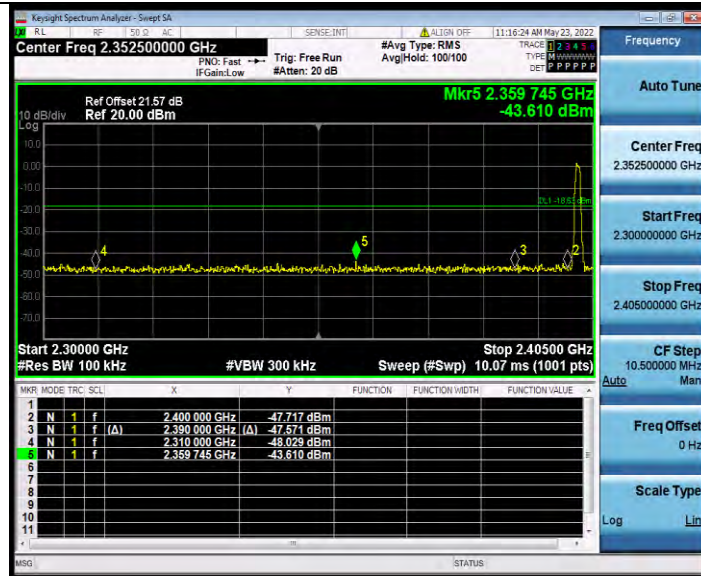


BLE\_500K\_Ant1\_Low\_2402

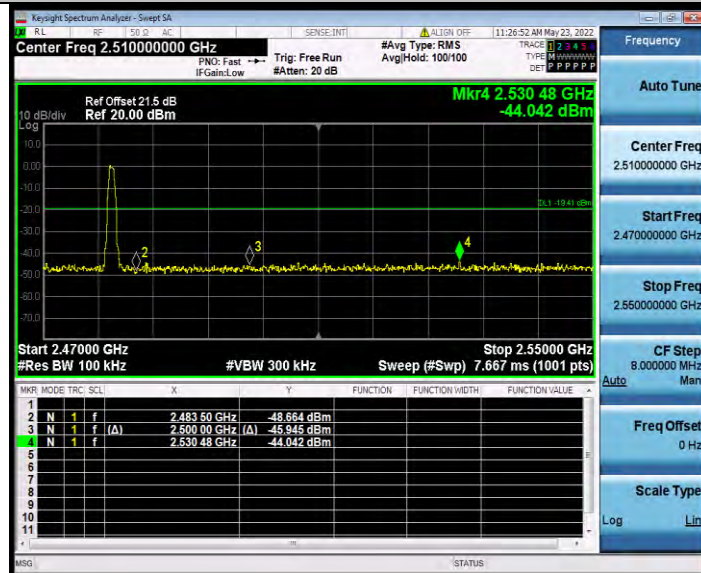


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



BLE\_500K\_Ant1\_High\_2480





### CONDUCTED SPURIOUS EMISSION

### TEST RESULT

TestMode	Antenna	Frequency [MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_125K	Ant1	2402	30~1000	-0.52	-43.27	≤-20.52	PASS
			1000~26500	-0.52	-28.08	≤-20.52	PASS
		2440	30~1000	0.34	-43.73	≤-19.66	PASS
			1000~26500	0.34	-27.79	≤-19.66	PASS
		2480	30~1000	-2.58	-42.86	≤-22.58	PASS
			1000~26500	-2.58	-27.61	≤-22.58	PASS
BLE_1M	Ant1	2402	30~1000	1.35	-43.37	≤-18.65	PASS
			1000~26500	1.35	-27.67	≤-18.65	PASS
		2440	30~1000	1.36	-43.15	≤-18.64	PASS
			1000~26500	1.36	-27.48	≤-18.64	PASS
		2480	30~1000	0.60	-42.95	≤-19.4	PASS
			1000~26500	0.60	-27.09	≤-19.4	PASS
BLE_2M	Ant1	2402	30~1000	1.11	-43.27	≤-18.89	PASS
			1000~26500	1.11	-26.68	≤-18.89	PASS
		2440	30~1000	1.01	-42.91	≤-18.99	PASS
			1000~26500	1.01	-27.87	≤-18.99	PASS
		2480	30~1000	0.36	-43.23	≤-19.64	PASS
			1000~26500	0.36	-27.46	≤-19.64	PASS
BLE_500K	Ant1	2402	30~1000	1.37	-43.15	≤-18.63	PASS
			1000~26500	1.37	-27.48	≤-18.63	PASS
		2440	30~1000	1.37	-43.43	≤-18.63	PASS
			1000~26500	1.37	-28.02	≤-18.63	PASS
		2480	30~1000	0.59	-43.06	≤-19.41	PASS
			1000~26500	0.59	-27.04	≤-19.41	PASS



BUREAU VERITAS

Test Report No.: W7L-P22050002RF02

### TEST GRAPHS

BLE\_125K\_Ant1\_2402\_30~1000



BLE\_125K\_Ant1\_2402\_1000~26500

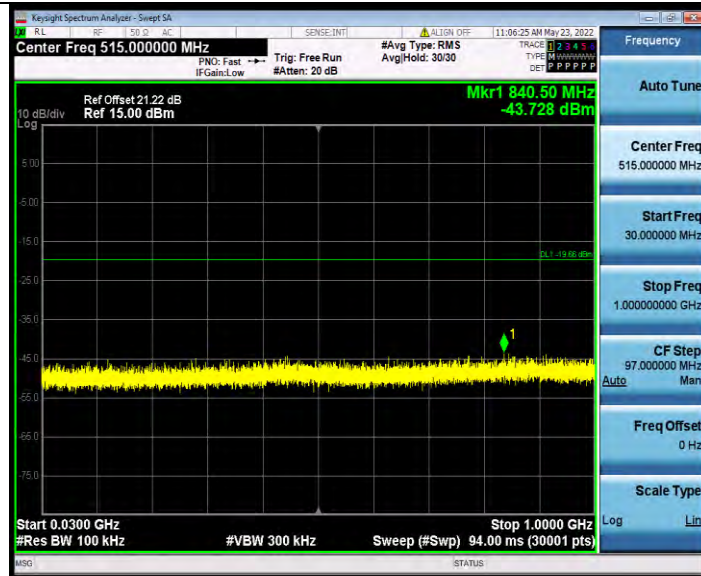


BLE\_125K\_Ant1\_2440\_30~1000



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_125K\_Ant1\_2440\_1000~26500



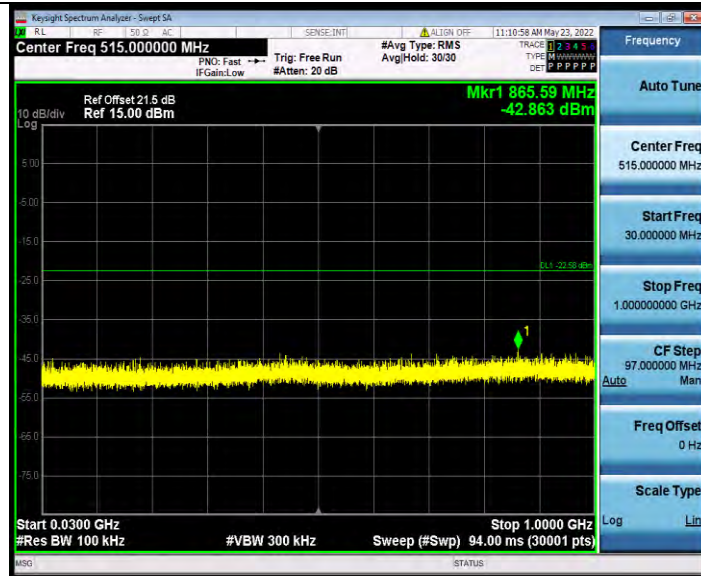
BLE\_125K\_Ant1\_2480\_30~1000





**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_125K\_Ant1\_2480\_1000~26500

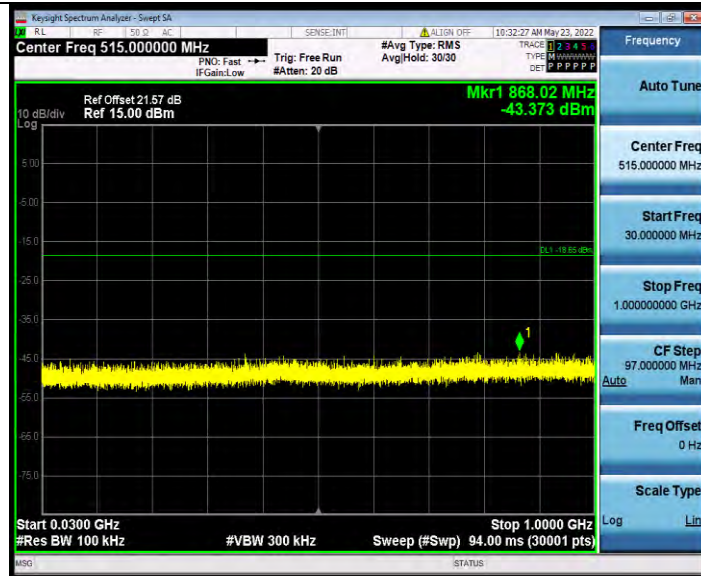


BLE\_1M\_Ant1\_2402\_30~1000



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_1M\_Ant1\_2402\_1000~26500

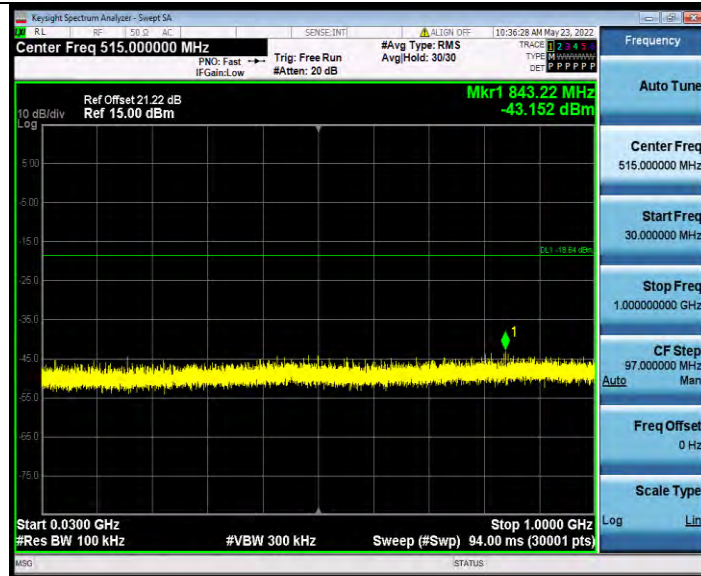


BLE\_1M\_Ant1\_2440\_30~1000



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_1M\_Ant1\_2440\_1000~26500



BLE\_1M\_Ant1\_2480\_30~1000

BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

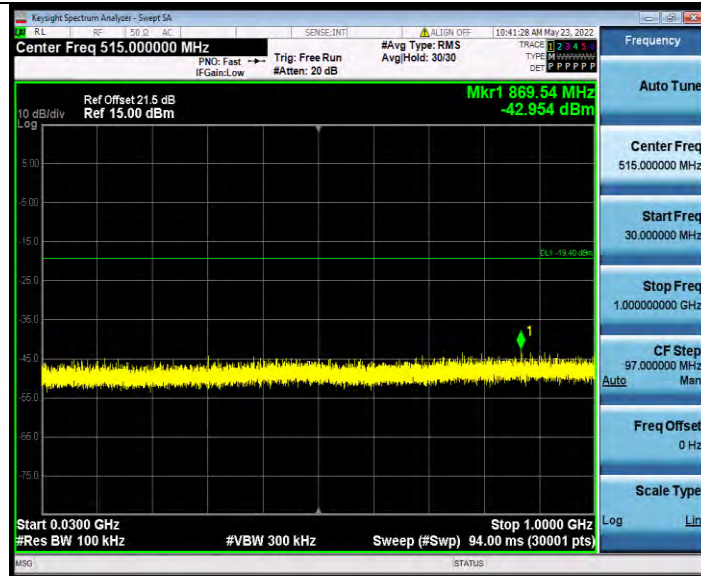
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_1M\_Ant1\_2480\_1000~26500

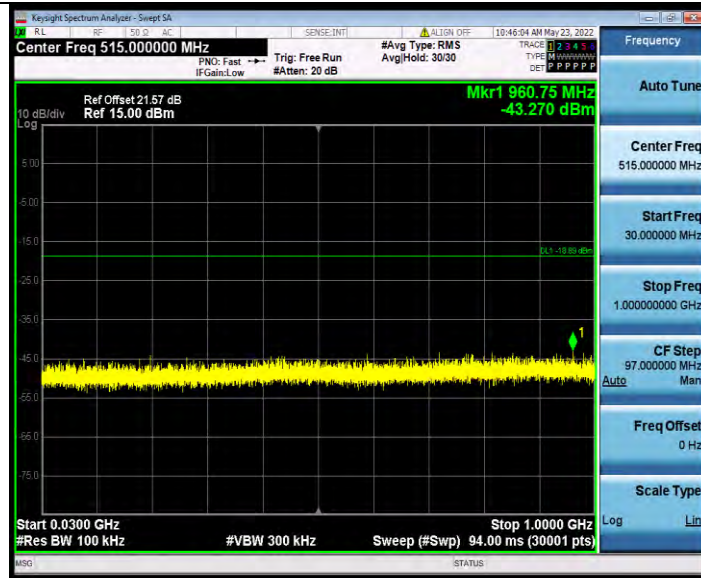


BLE\_2M\_Ant1\_2402\_30~1000



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_2M\_Ant1\_2402\_1000~26500

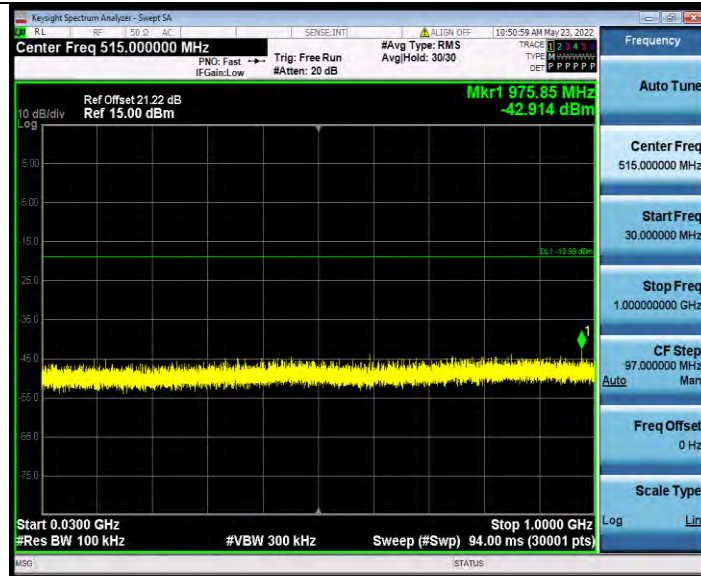


BLE\_2M\_Ant1\_2440\_30~1000



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_2M\_Ant1\_2440\_1000~26500

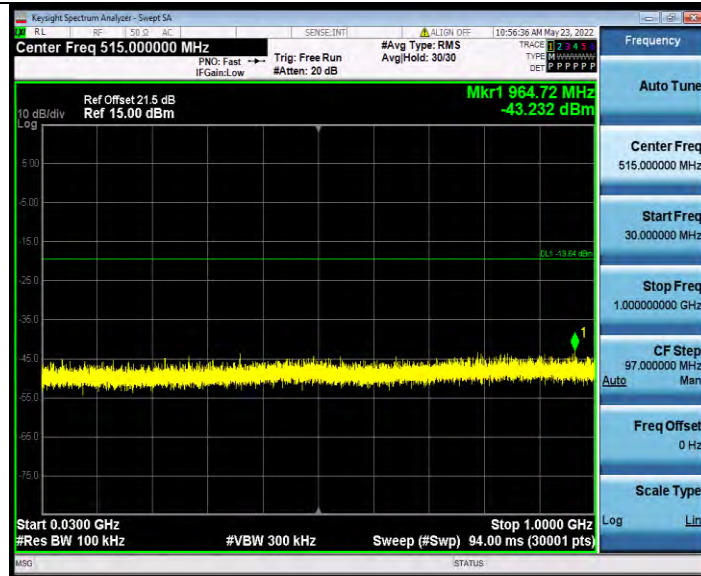


BLE\_2M\_Ant1\_2480\_30~1000



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_2M\_Ant1\_2480\_1000~26500



BLE\_500K\_Ant1\_2402\_30~1000

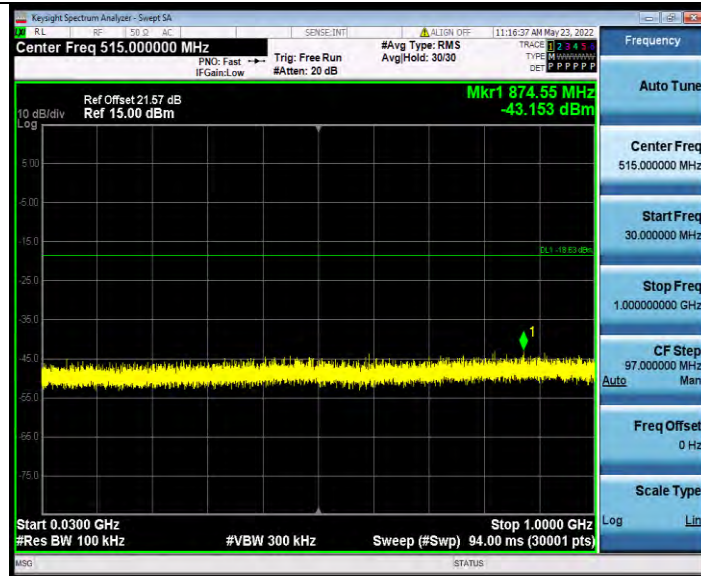
BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



**BUREAU VERITAS** Test Report No.: W7L-P22050002RF02



BLE\_500K\_Ant1\_2402\_1000~26500



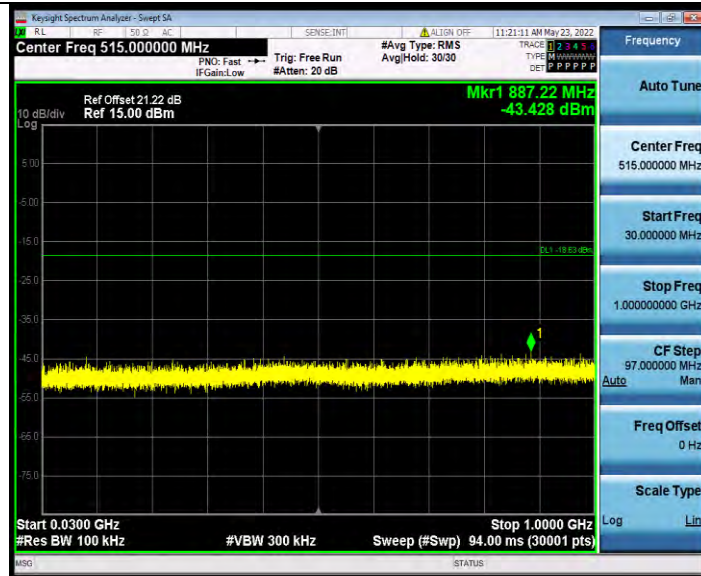
BLE\_500K\_Ant1\_2440\_30~1000





**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_500K\_Ant1\_2440\_1000~26500

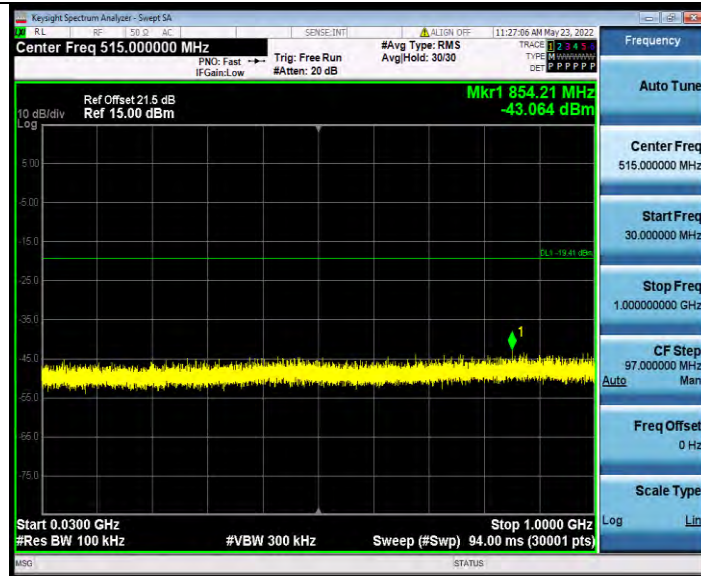


BLE\_500K\_Ant1\_2480\_30~1000



**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_500K\_Ant1\_2480\_1000~26500



BV 7Layers Communications Technology  
(Shenzhen) Co., Ltd

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



## **DUTY CYCLE TEST RESULT**

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period [ms]	Duty Cycle [%]
BLE_125K	Ant1	2402	13.02	13.74	94.76
		2440	13.02	13.74	94.76
		2480	13.02	13.74	94.76
BLE_1M	Ant1	2402	1.64	1.88	87.23
		2440	1.64	1.88	87.23
		2480	1.64	1.88	87.23
BLE_2M	Ant1	2402	0.82	1.25	65.60
		2440	0.82	1.25	65.60
		2480	0.82	1.25	65.60
BLE_500K	Ant1	2402	3.56	4.38	81.28
		2440	3.56	4.38	81.28
		2480	3.56	4.38	81.28



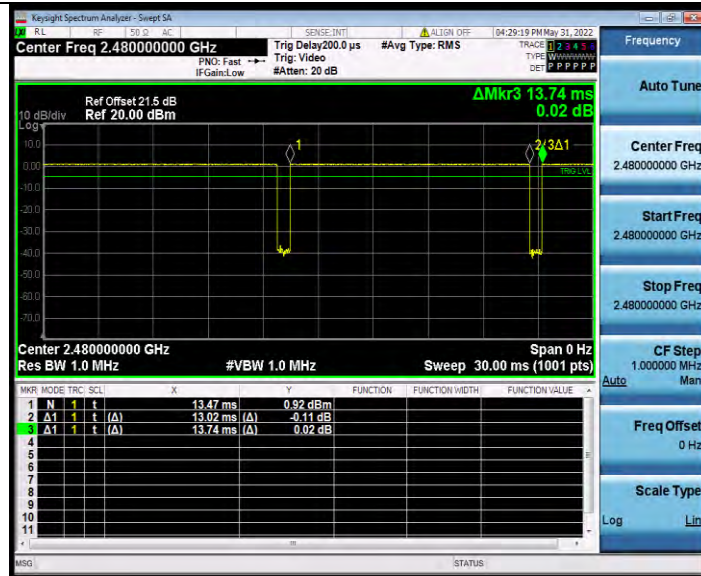
### TEST GRAPHS



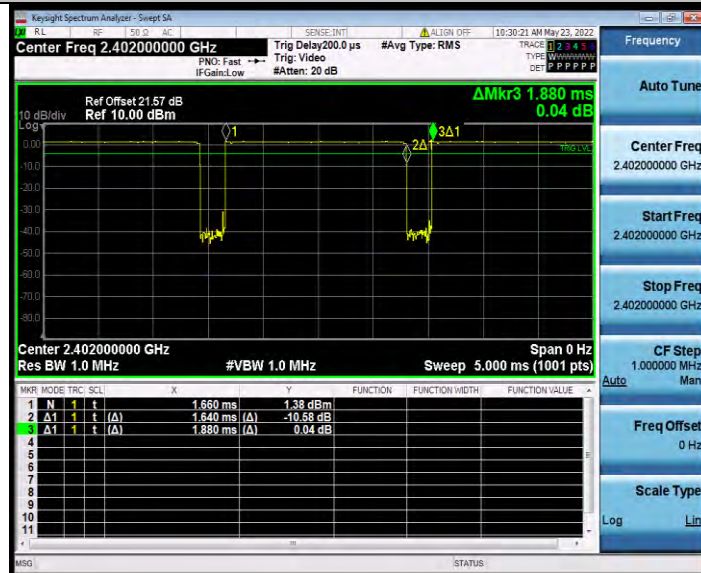


**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_1M\_Ant1\_2402

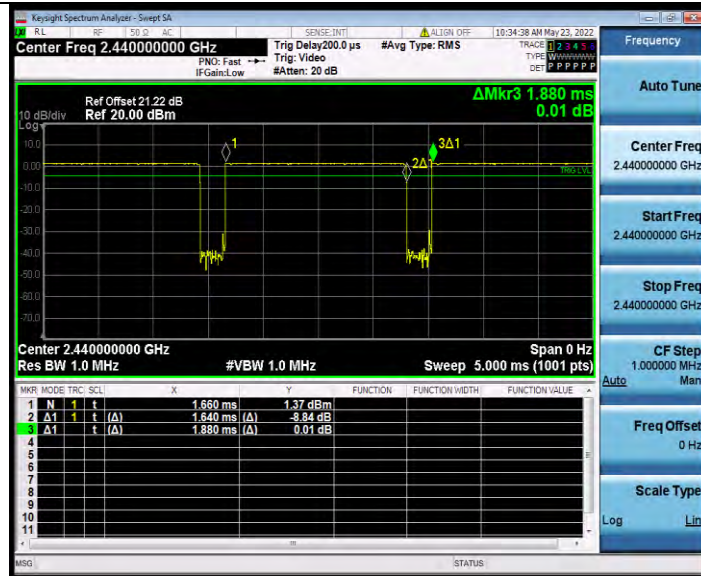


BLE\_1M\_Ant1\_2440

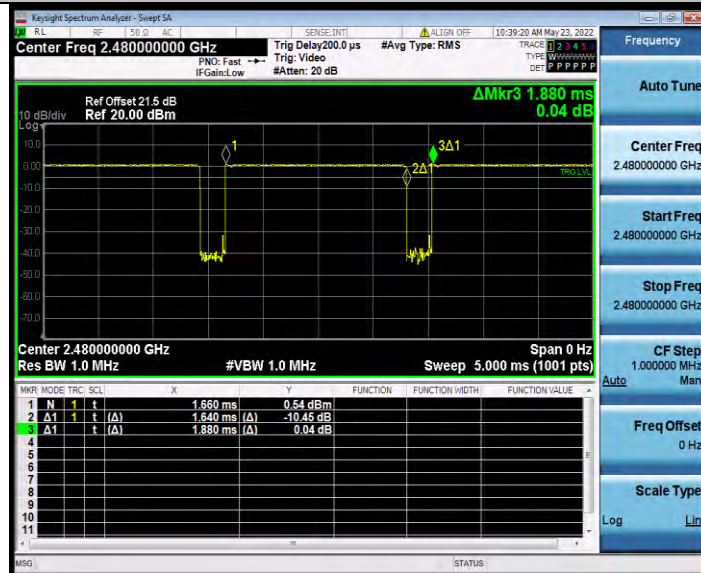


BUREAU VERITAS

Test Report No.: W7L-P22050002RF02



BLE\_1M\_Ant1\_2480

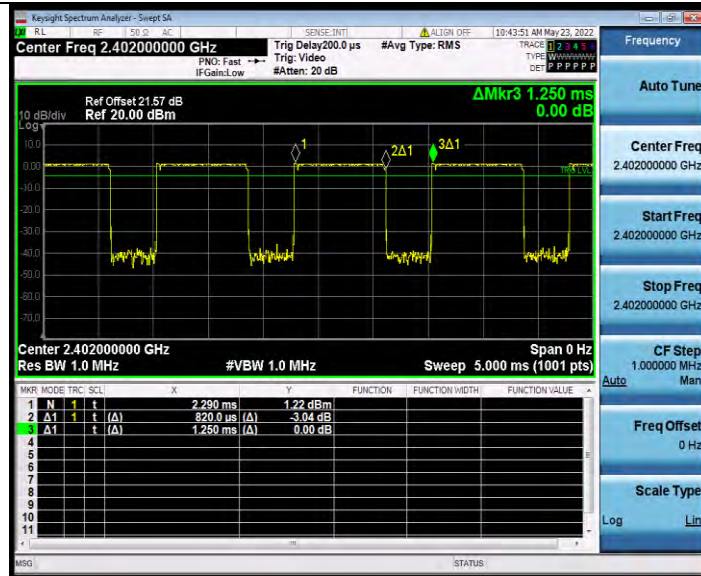


BLE\_2M\_Ant1\_2402

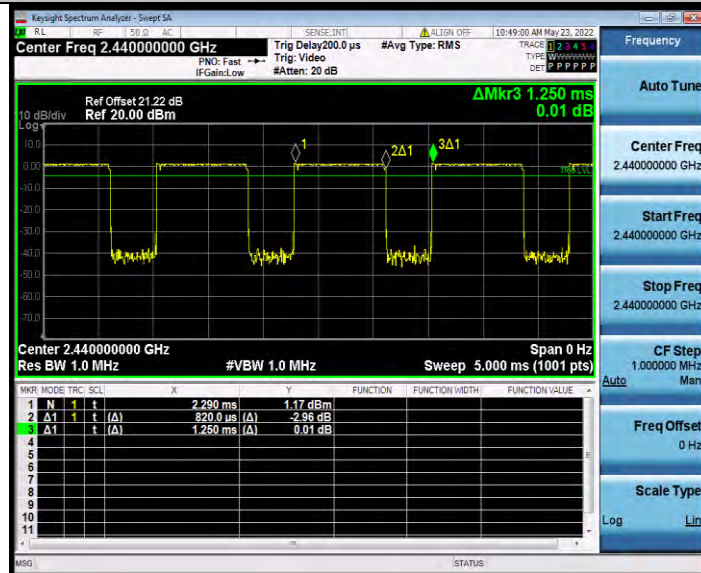


**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_2M\_Ant1\_2440

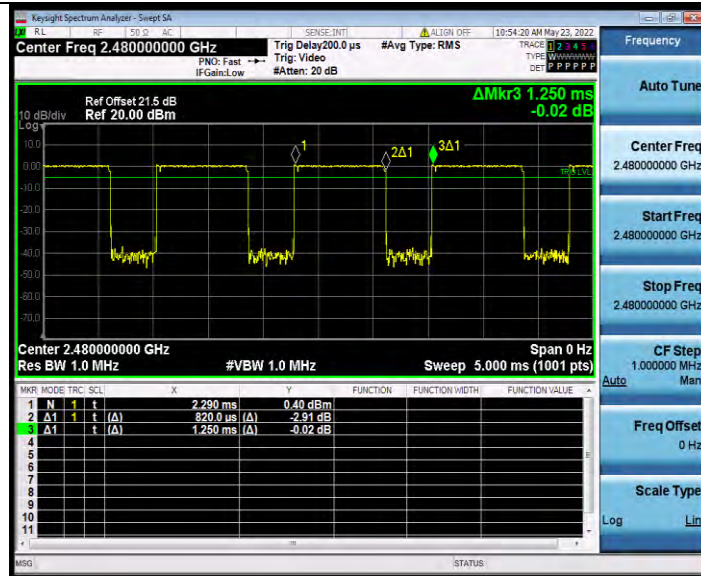


BLE\_2M\_Ant1\_2480

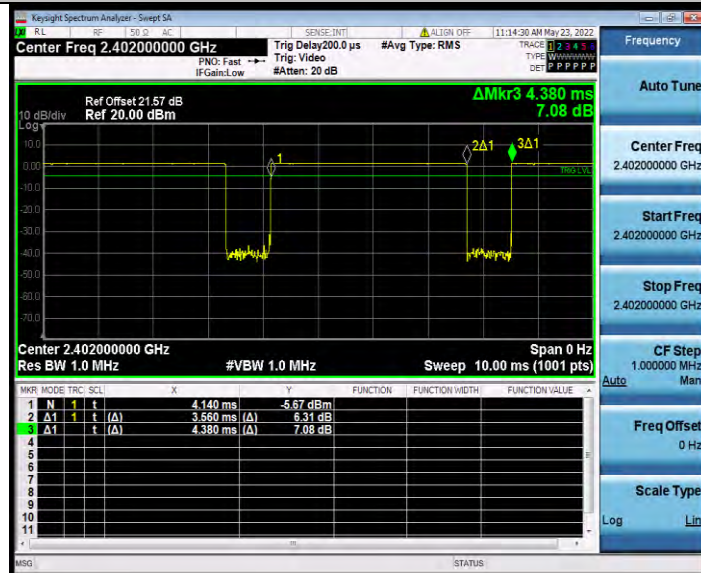


**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_500K\_Ant1\_2402



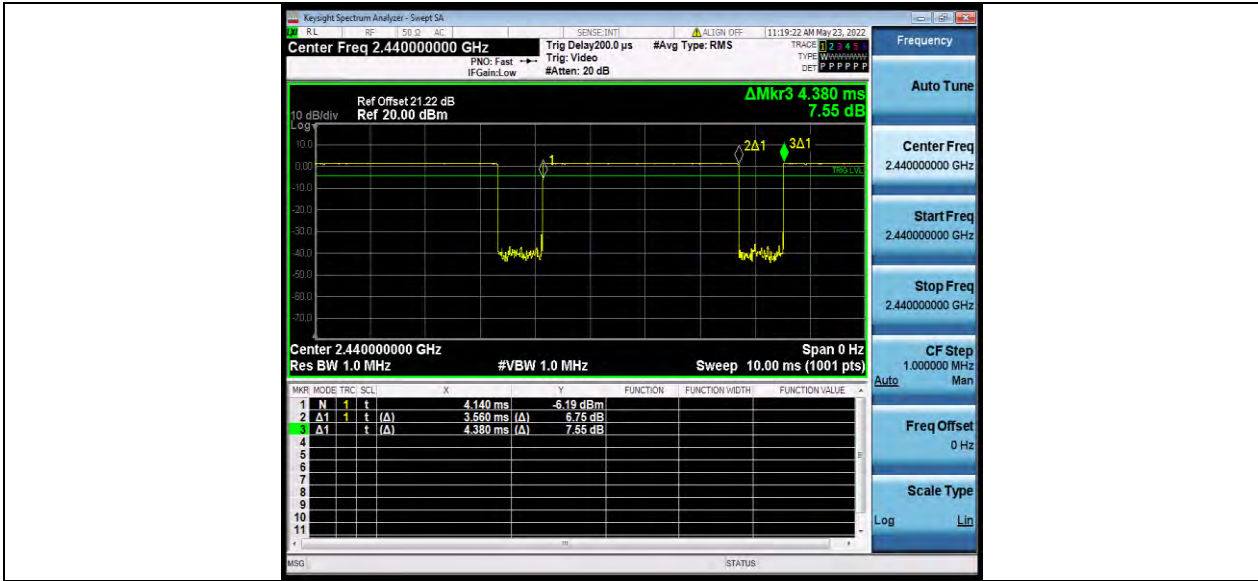
BLE\_500K\_Ant1\_2440





**BUREAU  
VERITAS**

**Test Report No.: W7L-P22050002RF02**



BLE\_500K\_Ant1\_2480

